Change 12 dated 18 March 2002
Change 9 dated 11 September 2001

APPENDIX A
ADMINISTRATION, HEADQUARTERS, AND OPERATIONS FACILITIES

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APPENDIX A
ADMINISTRATION, HEADQUARTERS, AND OPERATIONS FACILITIES

1. GENERAL AND SPECIFIC CRITERIA. The specific criteria contained in this appendix are applicable to the design of administration, headquarters, and operations type facilities. The general criteria contained in the preceding chapters are applicable where such criteria are not included in this appendix. Therefore, this appendix must be used with the chapters contained in this document.

2. GENERAL GUIDANCE. Army-owned/Leased Buildings. Administrative facility projects should be developed using AR 405-70 (reference A-1). Appendix D to AR 405-70 (reference A-1) provides detailed criteria for space planning. This paragraph provides guidance on the definitions of administrative space, storage space, and special space as well as the differences between new construction and existing facility criteria. Project requirements must be fully justified on the programming documents based on AR 405-70 (reference A-1).

a. Administrative Space. The building gross floor area will not exceed 15 m^2 (162 ft^2) per occupant in new construction exclusive of allowances for storage and special space. This gross area includes corridors, interior partitions and exterior walls, janitor closets, lobby areas, separate mechanical and electrical equipment rooms, stairways, and toilet facilities, and other supporting areas contained within the exterior walls. This requirement is based on 12.1 m^2 (130 ft^2) net area per office occupant. The net area includes workstation area and internal office circulation. Net office floor area will not be less than 10.2 m^2 (110 ft^2) per occupant. The net to gross conversion for new administrative facilities will be 1.25.

b. Storage Space. Storage space refers to space required to support the office environment such as space for office supplies, copier paper, common files, and support equipment. See Table D-3 in AR 405-70 (reference A-1) for additional guidance. Warehouse space is considered special space, see below.

c. Special Space. Special space is often needed in administrative and operational facilities in addition to the administrative and storage space s defined above. Special space includes auditoriums, atriums, cafeterias, child development facilities, computer rooms, conference rooms, printing plants, laboratories, libraries, shipping and receiving spaces, space allocated solely for use of computers (exclusive of personal computers), and spaces having special architectural, structural, mechanical, and/or electrical characteristics. Telephone, communications, and information management support spaces are to be itemized as special space. Interstitial spaces required in some laboratories and hospitals are also special space. Special

spaces are sized primarily on equipment needs, while administrative space is sized based on personnel.

d. Net to Gross Area Conversions. For planning purposes net administrative, storage, and special areas should be multiplied by a factor of 1.25 to determine the gross area for new administrative and operational buildings. Service schools, general and applied instruction buildings, and automation-aided classroom facilities should use a factor of 1.45 to convert net to gross area. Laboratory facilities should utilize a factor between 1.25 and 1.45 depending on the circulation requirements. Renovation of existing facilities should be expressed in net area. Although the factors in this paragraph are also goals for renovation projects, the net to gross ratio of existing facilities generally cannot be substantially altered.

3. BATTALION HEADQUARTERS BUILDINGS.

a. Standardization. The Center of Standardization for battalion headquarters buildings is the US Army Corps of Engineers, Sacramento District.

b. Previous AEI. All previous Architectural and Engineering Instructions issued by HQUSACE (CEMP-E) for battalion headquarters buildings are superseded by this appendix.

c. Provisions for Physically Handicapped Individuals. Battalion headquarters buildings will be designed for physically handicapped individuals. See chapter 7 of this TI.

d. Battalion Headquarters With Classrooms.

(1) Functional Areas. Space will be provided for a command section, S-1/PAC, S-2, S-3, S-4, chaplain and assistant chaplain, classroom, and service core. Private offices will be provided for the commanding officer, executive officer, command sergeant major, S-1 officer, S-2 officer, S-3 officer, S-4 officer, chaplain, and assistant chaplain. Space will also be provided for clerical and central files, conference room, duty officer, information management systems room "concentrator room," message center and mail sorting, reception, resource center, secure documents (crypto vault), showers (if requested by the using service), supplies, toilet facilities, vending, and an optional Troop Aid Station.

(2) DA Standard Design Packages for Battalion Headquarters, DEF 171-51-01 (reference A-2), DEF 171-51- 02 (reference A-3), DEF 171-51-03 (reference A-4), DEF 171-51-04 (reference A-5), DEF 171-51-05 (reference A-6), and DEF 171-51-06 (reference A-7) prepared by the Sacramento District will be used when developing designs for battalion headquarters with classrooms.

(3) Space Criteria. Space allowances for battalion headquarters with classrooms are shown in table A-1.

TABLE A-1 SPACE CRITERIA FOR BATTALION HEADQUARTERS WITH CLASSROOMS

TYPES OF BATTALIONS	**\9\ GROSS AREA [1, 2] /9/**	
	square meters	(square feet)
One-story Small Battalion (16 to 25 staff persons)	**1138**	**(12,250)**

TABLE A-1 SPACE CRITERIA FOR BATTALION HEADQUARTERS WITH CLASSROOMS		
TYPES OF BATTALIONS	\9\ GROSS AREA [1, 2] /9/	
	square meters	(square feet)
One-story Medium Battalion (26 to 35 staff persons)	**1344**	**(14,467)**
One-story Large Battalion (36 to 50 staff persons)	**1542**	**(16,598)**
Two-story Small Battalion (16 to 25 staff persons)	**1146**	**(12,336)**
Two-story Medium Battalion (26 to 35 staff persons)	**1292**	**(13,907)**
Two-story Large Battalion (36 to 50 staff persons)	**1487**	**(16,006)**

[1] Mechanical, electrical, and telecommunication equipment room space as required has been added to the gross areas shown. Additional space will not be added when determining a single gross area figure for each facility.

[2] Designs will be based on the functional relationships of the DA standard design package with space requirements determined on the specific needs of the using service, to include discussion of the Troop Aid Station requirement

e. Battalion Headquarters Without Classrooms.

(1) General. When classrooms are located nearby and readily available or when they are not required by the mission of the battalion, battalion headquarters will be provided without classrooms.

(2) Functional Areas. This type of facility will provide the same functional areas as listed in paragraph 3.d. above, except classrooms will be omitted.

(3) DA Standard Design Packages for Battalion Headquarters, DEF 141-83-01 (reference A-8), DEF 141-83-02 (reference A-9), and DEF 141-83-03 (reference A-10) prepared by the Sacramento District will be used when developing designs for battalion headquarters without classrooms.

(4) Space Criteria. Space allowances for battalion headquarters without classrooms are shown in table A-2.

TABLE A-2 SPACE CRITERIA FOR BATTALION HEADQUARTERS WITHOUT CLASSROOMS		
TYPES OF BATTALIONS	\9\GROSS AREA [1, 2] /9/	
	square meters	(square feet)
Small Battalions (16 to 25 staff persons)	**720**	**(7,751)**
Medium Battalions (26 to 35 staff persons)	**918**	**(9,882)**

TABLE A-2 SPACE CRITERIA FOR BATTALION HEADQUARTERS WITHOUT CLASSROOMS		
TYPES OF BATTALIONS	**\9\GROSS AREA [1, 2] /9/**	
	square meters	(square feet)
Large Battalions (36 to 50 staff persons)	**1116**	**(12,013)**

[1] Mechanical, electrical, and telecommunication equipment room space as required has been added to the gross areas shown. Additional space will not be added when determining a single gross area figure for each facility.

[2] Designs will be based on the functional relationships of the DA standard design package with space requirements determined on the specific needs of the using service, to include discussion of the Troop Aid Station requirement

4. BRIGADE HEADQUARTERS BUILDINGS.

a. Standardization. The Center of Standardization for brigade headquarters buildings is the US Army Corps of Engineers, Sacramento District.

b. Previous AEI. All previous Architectural and Engineering Instructions issued by HQUSACE (CEMP-E) for brigade headquarters buildings are superseded by this appendix.

c. Functional Areas. Space will be provided for a command section, S-1, S-2, S-3, S-4, service core and support services. Private offices will be provided for the commanding officer, executive officer, command sergeant major, S-1 officer, S-2 officer, S-3 officer, S-4 officer, re-enlistment, surgeon, chaplain, and assistant chaplain. Space will also be provided for clerical and central files, conference room, duty officer, information management systems room "concentrator room," message center and mail sorting, reception, secure documents (crypto vault), showers (if requested by the using service), supplies, toilet facilities, vending, and optional Troop Aid Station.

d. Provisions for Physically Handicapped Individuals. Brigade headquarters buildings will be designed for physically handicapped individuals. See chapter 7.

e. The DA Standard Design Package for Brigade Headquarters, DEF 141-82-01 (reference A-11) prepared by the Sacramento District will be used when developing designs for brigade headquarters projects.

f. Standard Size Facility. **\9\The standard size brigade headquarters building is 978 m^2 (10,528 ft^2) gross area, including space for mechanical, electrical, and electronic equipment. The Troop Aid Station option will add 188 m^2 (2024 ft^2) to the layout. Total area including Troop Aid Station is 1166 m^2 (12,552 ft^2).9/** The given size of the standard brigade headquarters building will meet most brigade requirements. If functional demands or mission objectives are such that a larger building is required and additional area is approved by the Department of the Army, the building size shall be increased by adding three meter (10 feet) modules to the administrative end of the building.

5. COMPANY OPERATIONS FACILITIES (COF).

a. Standardization. The Center of Standardization for company operations facilities is the **\9\US Army Corps of Engineers, Savannah District./9/**

b. Previous AEI. All previous Architectural and Engineering Instructions issued by **\9\HQUSACE (CECW-E)/9/** for company administration and operations buildings are superseded by this appendix.

c. Provisions for Physically Handicapped Individuals. Company operations facilities are intended to be used and occupied by able-bodied soldiers only; therefore, this type of facility will not be designed to be accessible for the physically handicapped. See chapter 7.

d. Functional Areas.

(1) Administration Area. Space will be provided for private offices for the company commander, executive officer, the first sergeant, a training office, and platoon administration. In addition, space will be provided for an open administration office, conference and classroom, entry and waiting area, janitor's closet, storage room (office files and supplies), **\9\information management systems room (concentrator room),and toilet facilities. An option for two unisex shower rooms adjacent to the toilet facilities is also available./9/**

(2) \9**Supply** Area. Space will be provided for an arms vault; equipment maintenance; unit storage; communications (COMMO) storage; nuclear, biological and chemical (NBC) equipment storage; general storage; individual lockers **(600m2[w] x 600m2[d] x 1800m2[h]**) for TA-50 gear storage; and **gang** shower**/locker room** facilities **. Also, a covered equipment maintenance area and an equipment cleaning area will be provided on the exterior perimeter of the building.**

e. Layout Considerations. Consideration should be given to grouping multiple COFs within a battalion in a common building; however, separate functional areas for each company will be maintained when a building is shared. Where this type of layout is practical, consolidation of mechanical rooms and gang shower facilities may be considered to reduce construction costs. Also, based on the supply function accommodated by this facility, consideration should be given to using a building system that will afford appropriate flexibility and economy of construction.

f. HVAC Requirements. Administration areas will be conditioned in accordance with requirements indicted in Chapter 13. Recognizing that the COF supply areas are also occupied on a continual basis, air conditioning, as well as heating, may be provided in the supply, shower, and locker areas in climates where such conditioning is warranted. In climates were air conditioning is not necessary, the supply, shower, and locker rooms should be mechanically ventilated./9/

g. DA Standard Design Package for COF. DEF 610-41-04 (reference A-12), prepared by the Savannah District, will be used when developing designs for company operations facilities.

TABLE A-3 SPACE CRITERIA FOR COMPANY OPERATIONS FACILITIES

TYPES OF COMPANIES	**\9\GROSS AREA [1] /9/**	
	square meters	(square feet)
Special Small-size Company (Up to 50 persons)	Note [2]	Note [2]
Small-size Companies (50 to 75 persons)		
One-story Design	**722**	**(7770)**
Two-story Design	**749**	**(8056)**
Medium-size Companies (76 to 175 persons)		
One-story Design	**850**	**(9141)**
Two-story Design	**915**	**(9843)**
Large-size Companies (176 to 300 persons)		
One-story	**1079**	**(11,605)**
Two-story	**1095**	**(11,777)**
Special Large-size Companies (more than 300 persons)	Note [2]	Note [2]

[1] Mechanical, electrical, and telecommunication equipment room space as required has been added to the gross areas shown. Additional space will not be added when determining a single gross area figure for each facility.

[2] Designs will be based on the functional relationships of the DA standard design package with space requirements determined on the specific needs of the using service.

f. Space Criteria. Space allowances for company operations facilities are shown in table A-3.

6. CRIMINAL INVESTIGATION COMMAND (CIDC) FIELD OPERATIONS BUILDINGS.

a. Standardization. The Center of Standardization (COS) for CIDC field operations facilities is the Norfolk District Engineer Office.

b. Previous AEI. All previous Architectural and Engineering Instructions issued by HQUSACE (CEMP-E) for CIDC Field Operations Buildings are superseded by this appendix.

c. Functional Areas. The US Army CIDC mission throughout the world is to organize, administer, recruit, and train staff to conduct investigations related to felony crimes committed against the US Army, or its persons or property. Typically, this mission is carried out by USACIDC field elements which provide criminal investigative support to the Army commanders and installations within a specified geographic area. The CIDC Field Operations Building is an operational facility and differs from the typical army administrative offices in that there are five distinct zones of activity requiring various levels of privacy and security within the facility as follows:

(1) Administration Area, semi-restricted zone. The administrative area will provide space for general office area, central files/records area, multipurpose lounge for use by staff employees. Access to this area

will be limited to the staff employees.

(2) Command Area, private zone. The command area will provide space for the Commander's office, Executive Officer, and Operations office. This area is private with limited public access.

(3) Investigative Area, restricted zone. The investigative area will contain space for special agent's office, office for drug suppression team, offices for team chiefs, and evidence depositary. Access to this area will be limited to the staff employees.

(4) Investigative Support Area, restricted zone. The investigative support area will contain space for an arms room, duty agent's room, interview rooms, photo ID room, polygraph suite, suspect waiting room, suspect observation room, and toilet for use by suspects. This area will be restricted to agents and suspects. The suspect observation room will have access only from the public areas.

(5) Reception Area, public zone. The reception area will contain space for entrance lobby and waiting area, and reception counter. This area will have unrestricted public access.

d. DA Standard Design Package for CIDC Facilities. DA Standard Design Package for CIDC Facilities, DEF 141-14-01 (reference A-13) prepared by the Norfolk District Engineer Office, will be used when developing designs for CIDC Field Operations Facilities. DG 1110-3-144 (reference A-14) may be used as a guide when designing CIDC field operations building projects. The standard design package is developed in metric unit of measurements using CADD and should be used as a basis for CIDC facilities constructed within the continental US.

e. Standard Size Facility. DEF 141-14-01 shows prototypical solutions for three (3) CIDC Field Operations Facilities to support the operations of the 5 to 8 special agents (663 m^2 or 7,133 ft^2), 9 to 12 special agents (843 m^2 or 9,071 ft^2), and 13 or more special agents (1278 m^2 or 13,752 ft^2) respectively. The U.S. Army Criminal Investigation Command should be contacted for project specific requirements.

7. INFORMATION SYSTEMS FACILITIES.

a. Standardization. The Center of Standardization (COS) for information systems facilities is the Norfolk District Engineer Office.

b. Functional Areas. Normally, an information systems facility will provide space for six operating divisions. The facility will have eleven functional areas as follows:

(1) Main entrance and security checkpoint.

(2) Command group offices.

(3) Logistics Division.

(4) Operations Division.

(5) Plans and Resource Management Division.

(6) Printing and Publications Division.

(7) Records Management Division.

(8) Visual Information Division.

(9) General support areas, including a lunch room and toilet facilities.

(10) Input/output spaces in support of the operating divisions.

(11) Mechanical, electrical, and electronic equipment rooms and utility spaces.

c. Standard Design. The DA Standard Design Package for Information Systems Facilities, DEF 131-20-01 (reference A-15) originally prepared by the New York District Engineer Office and now being maintained by the COS (the Norfolk District Engineer Office) will be used when developing designs for information systems facilities.

d. Space Criteria. There are no standards sizes for information systems facilities. The US Army Information Systems Engineering Command should be contacted when planning an information systems facility. The medium-sized facility shown on the standard design for a staff of approximately 180 persons is 4738 m^2 (51,000 ft^2) gross area. The standard design may be modified to suit local installation requirements provided the functional relationships of spaces are maintained.

12\ 8. CLASSROOM XXI FACILITIES

a. Standardization. The Center of Standardization (COS) for Classroom XXI is the U.S. Army Corps of Engineers- Norfolk District.

b. Previous AEI. This appendix supersedes all previous Architectural and Engineering Instructions issued by HQUSACE (CEMP-E) for Classroom XXI.

c. DA Standard Design Package for Classroom XXI Facilities. The design package for this facility type is a web-based program that aids the designer in designing the space. The program may be accessed at www.nao.usace.army.mil. A standard design drawing package is not available.

d. Functional Areas. The US Army Classroom XXI mission throughout the world is to provide facilities that allow for training staff. The classroom uses technology to support institutional resident education and training and serves as a platform to import/export education and training.

(1) Classroom. Classrooms are generally planned as renovation to existing buildings but may also be used in new construction. Rooms are sized for 20, 18, and 16 students. EIRS BULLETIN 95-05, Engineering and Design, Automation-Aided Classroom Design Criteria applies to the design of these classrooms. Department of the Army Real Property Category Code is Construction Category Code, 17136, Automation-Aided Instruction Building as supplemented by this document. Current training technology requires students to use a computer at a desk that also has space for reference materials, a flat work surface, and circulation space to support an instructor observing or assisting. When classroom circulation and technical support areas for the classroom are added this results in a planning factor of 7.0 net square meters, or 75 net square feet (NSF), of area per student. A net to gross area conversion factor of 1.45 applies to classrooms parts of the building and primary circulation.

Classroom Size and Shape: Rooms generally square in plan are the best candidates for renovation. An unobstructed view to the front of the room by all students is required. The instructor workstation and 2-120" wide projection screens are located at the front of the room. The best room candidates however, have one wall that is, or approximately, 30 feet long and 12 feet optimum/10 feet minimum high, above the finished floor. Optimal student viewing of the centrally located screens is critical.

Student Capacity, Room Sizes, and Square Footage Examples:
20 Students/Classroom: 1) 36′ x 42′ = 1,512 NSF or, 2) 32′ x 48′ = 1,536 NSF
18 Students/Classroom: 1) 34′ x 40′ = 1,360 NSF or, 2) 35′ x 39′ = 1,365 NSF
16 Students/Classroom: 1) 30′ x 40′ = 1,200 NSF or, 2) 35′ x 35′ = 1,225 NSF

(2) Digitized Training Access Center (DTAC). The DTAC electronically stores and distributes the digital proponent record copy of approved training and other materials. It is the proponent's portion of the Army Doctrine Training Digital Library. If this function is not already provided within the facility or on the Installation, it must be added as a functional requirement of the operational classroom. It will interface with the Automated Systems Approach to Training (ASAT) to receive completed training materials. Instructors and students will pull training materials from the DTAC. The DTAC is also considered a large communications area and its configuration is dependent on the engineering solution for the systems architecture. Department of the Army Real Property Category Code is Construction Category Code, 13131, Information Processing Center,

DTAC size and shape: The concept for the DTAC includes area for 2-12 servers, in racks, and 1-4 workstations for technical support personnel. A workstation is defined as a desk, chair, and computer. An area of 400-600 net square feet should accommodate these requirements and existing areas may be used to the greatest extent practicable. A ceiling height of 8′-0" to 9′-0",

Functional requirements: An overhead cable raceway system is preferred for cabling so racks may be powered from overhead twist locks. If this is not feasible, a sub-floor system, a complete utility supply and cable management system (raised flooring), is an acceptable option. A separate cooling system capable of year-round cooling operation is recommended for each DTAC.

e. Interior Design. Classroom XXI spaces are generally individual classrooms located within other facilities. The interior design should follow established building design standards within the parameters established here.

(1) Color Scheme: A blue color scheme is recommended because it provides a technically correct broadcast quality VTT background. The color scheme shall include an integrated interior design package for all features and furnishings in the classroom.

(2) Floors: A sub-floor system, a complete utility supply and cable management system (raised flooring), is required. The raised floor shall typically be 3 to 6-inch high system with carpet tile finish. The pedestal supports shall be separate from the floor panel.

(3) Ceilings: The best classrooms accommodate a finished ceiling height of 12 feet optimum/10 feet minimum, above the finished floor to meet training requirements for projected images, and corresponding screen heights. The ceiling shall be 2′ x 2′ acoustic lay- panels.

(4) Windows: Rooms with no, or few windows is preferred. Minimizing glare on computer and projection screens is desirable. Acoustic shutters, matching classroom acoustical treatments, are the

recommended option when the total glass area is 30% or less, of the existing wall area. If glass area exceeds 30%, an interior partition may be built to cover glass areas. Glass area and orientation impact heating and cooling solutions, lighting, acoustics and ceiling configuration and height.

f. Furnishings: Minimum planning considerations.

(1) Student Workstation: 36" deep x 52" wide,

(2) Ergonomic Chair: Padded rolling, chair, adjustable height, tilt, lumbar support, and armrest.

(3) Instructor Workstation: A desk work surface, 80" wide x 30" deep with a side return 42" wide x 30" deep, Ergonomic Chair. Printer and fax machines on an equipment stand.

(4) Ancillary Furnishings: Area to support student storage, coat racks, clock, equipment stands and racks, waste receptacles and recycling bins, etc.

(5) Ceiling Mounted Projection Systems: Two video projectors and two 10 feet wide motor operated screens.

g. Engineering Systems.

(1) Classroom Acoustics: Performance criteria for acoustic control are listed below. An acoustic wall panel is recommended for application to existing walls.

Performance within a Room (NRC-Noise Reduction Coefficient):
Ceiling: Absorptive, NRC 50 (minimum)
Floor: Absorptive, NRC 25 (minimum)
Performance into/out of a Room (STC-Sound Transmission Coefficient)
Between Instructional Spaces: STC 50
Between Instructional Spaces and Corridors: STC 50

(2) Classroom Heating, Ventilating, and Air Conditioning (HVAC): The primary HVAC system must provide adequate ventilation air (outside air) to support a room of 20 +/- students. Existing systems must have sufficient capacity and airflow to adequately cool the classrooms taking the occupancy and computer equipment loads into consideration. Modifications to an existing building system, beyond the classroom(s), must also be considered for a complete installation. The system shall meet the following requirements:

1) Temperature, maintained operation: 68 degrees F (heating), 78 degrees F (cooling);
2) Relative humidity: 30-50% year-round;
3) Outside air requirement: 15 CFM per person minimum;
4) Supply air quantity: 6 air changes per hour minimum;
5) Air movement: 40-FPM maximum in the zone 30" to 60" above floor level;
6) Air pressure: positive;
7) HVAC controls: Coordinate with the installation EMCS to ensure the system will be operational when classes are scheduled.

(3) Communications: A fully functional capability requires these communication components:

1) Connectivity from the site/installation to the wide area network (DISN);
2) Connectivity from the building switch to the installation back-bone;
3) Connectivity from the building switch to the classroom switch, and

4) Connectivity from the classroom switch to each workstation and peripheral in the classroom.

(4) Electrical Power: Each classroom requires, at a minimum, a 200 amps, 120/208 volt, 3-phase, 4-wire, electrical panelboard. The panelboard will require 24 single-pole, 20 amp circuit breakers. Power should be conditioned where possible.

(5) Electrical Lighting: Lighting, integral to the ceiling, includes dual banked parabolic louver fixtures with fluorescent lamps. Fixtures shall be placed to avoid directly lighting projection screens. /**12**/

9. REFERENCES.

1\A-1 AR 405-70, Real Estate, Utilization of Real Estate, 15 September 1993/**1**/

A-2 DEF 171-51-01, Department of the Army Standard Design Package for Small Size Battalion Headquarters, February 1987

A-3 DEF 171-51-02, Department of the Army Standard Design Package for Medium Size Battalion Headquarters, February 1987

A-4 DEF 171-51-03, Department of the Army Standard Design Package for Large Size Battalion Headquarters, February 1987

A-5 DEF 171-51-04, Department of the Army Standard Design Package for Two Story Small Size Battalion Headquarters, April 1988

A-6 DEF 171-51-05, Department of the Army Standard Design Package for Two Story Medium Size Battalion Headquarters, April 1988

A-7 DEF 171-51-06, Department of the Army Standard Design Package for Two Story Large Size Battalion Headquarters, April 1988

A-8 DEF 141-83-01, Department of the Army Standard Design Package for Small Size Battalion Headquarters without Classrooms, April 1988

A-9 DEF 141-83-02, Department of the Army Standard Design Package for Medium Size Battalion Headquarters without Classrooms, April 1988

A-10 DEF 141-83-03, Department of the Army Standard Design Package for Large Size Battalion Headquarters without Classrooms, April 1988

A-11 DEF 141-82-01, Department of the Army Standard Design Package for Brigade Headquarters, February 1987

A-12 DEF 610-41-04, Department of the Army Standard Design Package for Company Operations Facilities, February 1994

A-13 DEF 141-14-01, Department of the Army Standard Design Package for Criminal Investigation Command Field Operations Facility, February 1995

A-14 DG 1110-3-144, Design Guide, CIDC Field Offices, November 1977 (available on the USACE Publication Internet Site at *http://www.usace.army.mil/inet/usace-docs/design-guides/all.htm*)

A-15 DEF 131-20-01, Department of the Army Standard Design Package for Information Systems Facility, 15 May 1987